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| Mr. Michael T. Davis  WLPCS Calculus | | Sections 5.2 & 5.3 In-Class Problem Solving  April 6, 2018 | |
| Name: | |

1. Given the function , use the first derivative and the second derivative to determine:
2. The interval(s) on which the function is increasing,
3. The interval(s) on which the function is decreasing,
4. The x value of any point of inflection,
5. The interval(s) on which the graph is concave up,
6. The interval(s) on which the graph is concave down.
7. Use the second derivative test to identify any minimum or maximum values.
8. Given the function , use the first derivative and the second derivative to determine:
9. The interval(s) on which the function is increasing,
10. The interval(s) on which the function is decreasing,
11. The x value of any point of inflection,
12. The interval(s) on which the graph is concave up,
13. The interval(s) on which the graph is concave down,
14. Use the second derivative test to identify any minimum or maximum values.
15. Given the function , use the first derivative and the second derivative to determine:
16. The interval(s) on which the function is increasing,
17. The interval(s) on which the function is decreasing,
18. The x value of any point of inflection,
19. The interval(s) on which the graph is concave up,
20. The interval(s) on which the graph is concave down,
21. Use the second derivative test to identify any minimum or maximum values.
22. Given the function , use the first derivative and the second derivative to determine:
23. The interval(s) on which the function is increasing,
24. The interval(s) on which the function is decreasing,
25. The x value of any point of inflection,
26. The interval(s) on which the graph is concave up,
27. The interval(s) on which the graph is concave down,
28. Use the second derivative test to identify any minimum or maximum values.